

Proposed Claim:

A method for drug discovery comprising:

- (a) integrating a vector into the genome of a eukaryotic host cell, wherein said vector integration activates expression of an endogenous gene in said host cell;
- (b) culturing said cell under conditions favoring expression of said activated gene, thereby producing a gene product of said activated gene;
- (c) screening said cell for a phenotype wherein said phenotype is expression of said endogenous gene or is induced by expression of said gene;
- (d) treating said cell with one or more test compounds to be screened for drug activity; and
- (e) determining the ability of said one or more test compounds to interact with, or affect said phenotype.

A method for drug discovery comprising:

- (a) integrating a vector into the genome of a eukaryotic host cell, wherein said vector integration activates expression of an endogenous gene in said host cell;
- (b) culturing said cell under conditions favoring expression of said activated gene, thereby producing a gene product of said activated gene;
- (c) identifying said activated gene or a phenotype induced by expression of said activated gene;
- (d) treating said cell with one or more test compounds to be screened for drug activity; and
- (e) determining the ability of said one or more test compounds to interact with, or affect said phenotype.